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360877 (09) 6254574 July 3, 2001

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6254574

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Self-blunting needle medical devices and methods of manufacture thereof

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ASSIGNEE-AT-ISSUE: Bio-Plexus, Inc., Vernon, Connecticut, 02

ASSIGNEE-AFTER-ISSUE: October 29, 1999 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., BIO-PLEXUS, INC., A CORPORATION OF CONNECTICUT 129 RESERVOIR ROAD VERNON CONNECTICUT 06066, Reel and Frame Number: 10341/0802
August 19, 2002 - SECURITY AGREEMENT, COMVEST VENTURE PARTNERS, L.P., AS ADMINISTRATIVE AGENT C/O COMMONWEALTH ASSOCIATES 830 THIRD AVENUE, 4TH FL. NEW YORK NEW YORK 10022, Reel and Frame Number: 13203/0360
November 6, 2002 - MERGER (SEE DOCUMENT FOR DETAILS)., BIO-PLEXUS DELAWARE, INC., A CORPORATION OF THE STATE OF DELAWARE AND HAVING ITS PRINCIPAL PLACE OF BUSINESS AT 129 RESERVOIR ROAD VERNON CONNECTICUT 06066, Reel and Frame Number: 13463/0240

LEGAL-REP: Libert & Associates; Spaeth, Frederick A. - # #0

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**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number :

US6254574 B1 20010703 [US6254574]

Title :

(B1) Self-blunting needle medical devices and methods of manufacture thereof

Patent Assignee :

(B1) BIO PLEXUS INC (US)

Patent Assignee :

Bio-Plexus, Inc., Vernon CT [US]

Inventor(s) :

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Application Nbr :

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US4627841; US4675005; US4721506; US4801295; US4808169; US4810248;
US4828547; US4834718; US4846805; US4869717; US4880410; US4911691;
US5009642; US5030208; US5098389; US5098402; US5139485; US5201710;
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Abstract :

A self-blunting needle medical device comprises a needle cannula (18) fixed to a hub (20) having a receiving structure therein such as ferrule (22) and a movable blunting member (14) movably received within the cannula (18). Ferrule (22) defines a passage (38) extending therethrough, within which both the cannula (18) and the movable member (14) can be received and which establishes a coaxial relationship between them. The ferrule (22) defines a first guide surface (40) for directing the blunting end (14a) of the movable member (14) into the central bore of the cannula (18) during assembly. A second guide surface

(42) performs the function of guiding the mounting end (18b) of the cannula (18) into ferrule (22) for mounting therein. Typically, the cannula (18) has a tissue puncture tip (18a). When the movable member (14) is retracted into the cannula (18), the puncture tip (18a) is exposed for use, e.g., injection into tissue. The movable member (14) is then moved to an extended position in which blunting end (14a) projects beyond the puncture tip (18a), to render the device safe with regard to subsequent accidental needle sticks. Methods of assembling the self-blunting needle are also presented. In various embodiments, the guide member may be integral with the assembled device or may be defined by a guide member that is used only in the assembly process and from which the assembled device may be removed.

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ASSIGNMENT

OWNER: BIO-PLEXUS, INC., A CORPORATION OF CONNECTICUT 129

ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:BURZYNSKI, MARK J.;JONES, ALEXANDER K.;KEARNS, RICHARD S.;AND

OTHERS;REEL/FRAME:010341/0802;SIGNING DATES FROM 19990913 TO 19991014

20020819 US/AS-A

ASSIGNMENT

OWNER: COMVEST VENTURE PARTNERS, L.P., AS ADMINISTRATIVE; EFFECTIVE

DATE: 20020618

SECURITY AGREEMENT;ASSIGNOR:BIO-PLEXUS, INC. /AR;REEL/FRAME:013203/0360

20021106 US/AS-A

ASSIGNMENT

OWNER: BIO-PLEXUS DELAWARE, INC., A CORPORATION OF THE ST; EFFECTIVE

DATE: 20010718

MERGER;ASSIGNOR:BIO-PEXUS, INC.;REEL/FRAME:013463/0240

20021106 US/AS-A

ASSIGNMENT

OWNER: BIO-PLEXUS DELAWARE, INC., A CORPORATION OF THE ST; EFFECTIVE

DATE: 20010718

MERGER;ASSIGNOR:BIO-PEXUS, INC. /AR;REEL/FRAME:013463/0240

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Patent Assignee :

Bio Plexus Inc

Actions :

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SECURITY AGREEMENT

Assignor: BIO-PLEXUS, INC., DATE SIGNED: 06/18/2002

Assignee: COMVEST VENTURE PARTNERS, L.P., AS ADMINISTRATIVE AGENT, C/O
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Reel 013203/Frame 0360

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20021106 REASSIGNED
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Assignor: BIO-PEXUS, INC., DATE SIGNED: 07/18/2001

Assignee: BIO-PLEXUS DELAWARE, INC., A CORPORATION OF THE STATE OF
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